

BEST AVAILABLE COPY**Switching device based on wave function size change****RECEIVED
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Dear Sir,

Following required amendments to the claims.

Best Regards,

Inventor: Erez Yahalomi, (Tarpad 8, Ramat-Hasharon, Israel)

*Erez Yahalomi*Application no 10/686,914
Confirmation no. 7454

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9. (Cancelled)

3

31.(Currently amended) - ~~A device comprising:
a container in which at least one particle is contained, wherein the
particle in a first lower energy state is confined to a given region and
wherein, in a second higher energy state, the particle is increased in size
such that a portion of the at least one particle is outside the given region,
while remaining in the container; and at least one electrode adapted to detect
the presence of the portion of the at least one particle outside the region or of
the transition of the at least one particle from the first to the second state.~~

The device of claim 1 comprising :

- (i) a first region contained the particle wave function in the first switched state.
- (ii) a second region adjacent to said first region contained expended part of said particle wave function of second switched state wherein said second region could be made of different material or structure as well.

32-36 (Cancelled)

37. (original) (New) A method of switching comprising:
providing at least one particle having a wave function bound to a region;
switching at least one particle from a first lower energy state in which the
wave function of said particle has a first small extent to a second higher
energy state in which the wave function of the at least one particle has a
second larger extent, while remaining bound to the region; and
determining the state of the at least one particle or the transition of the at
least one particle from one of said states to the other.

Switching device based on wave function size change

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